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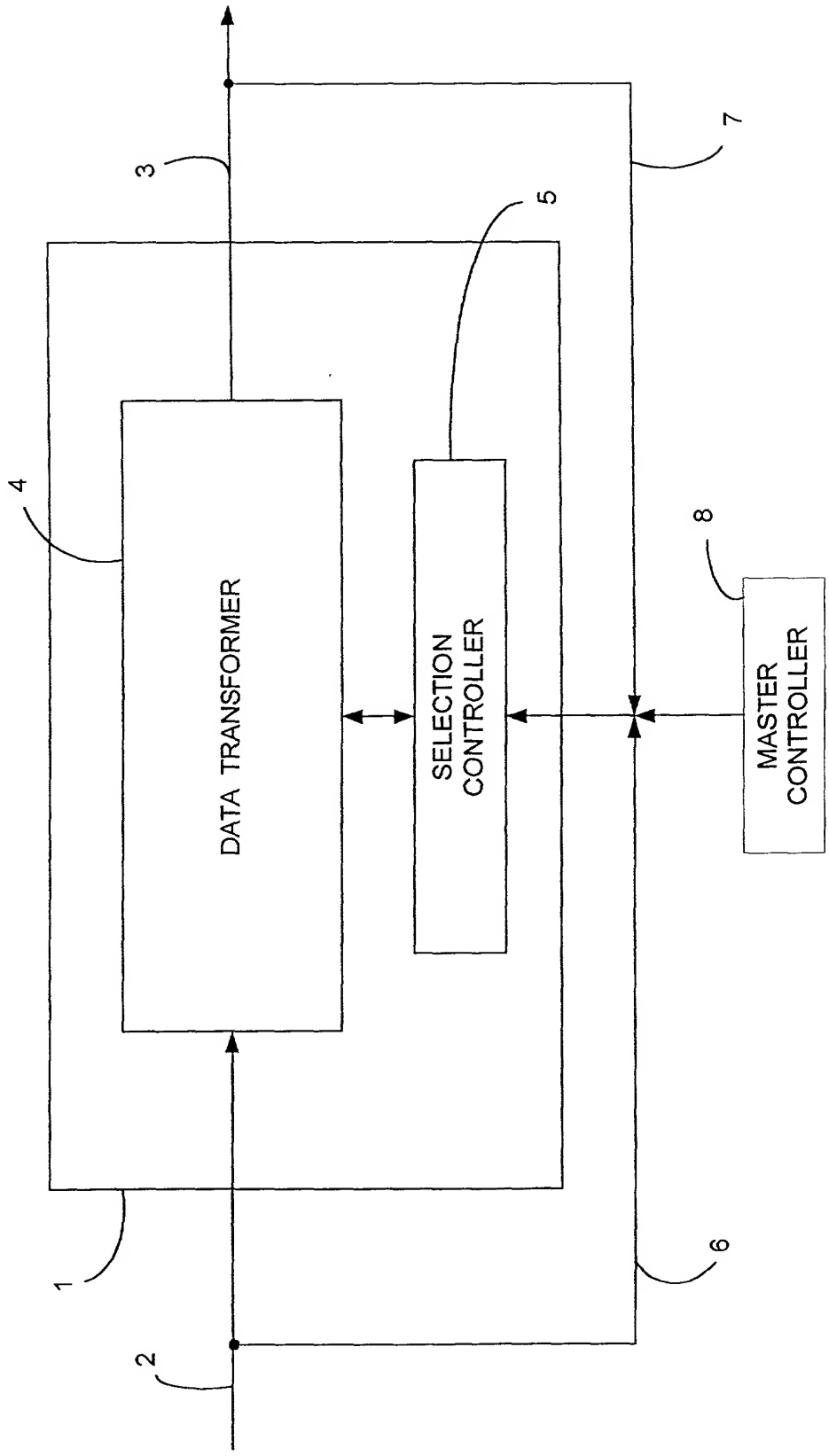
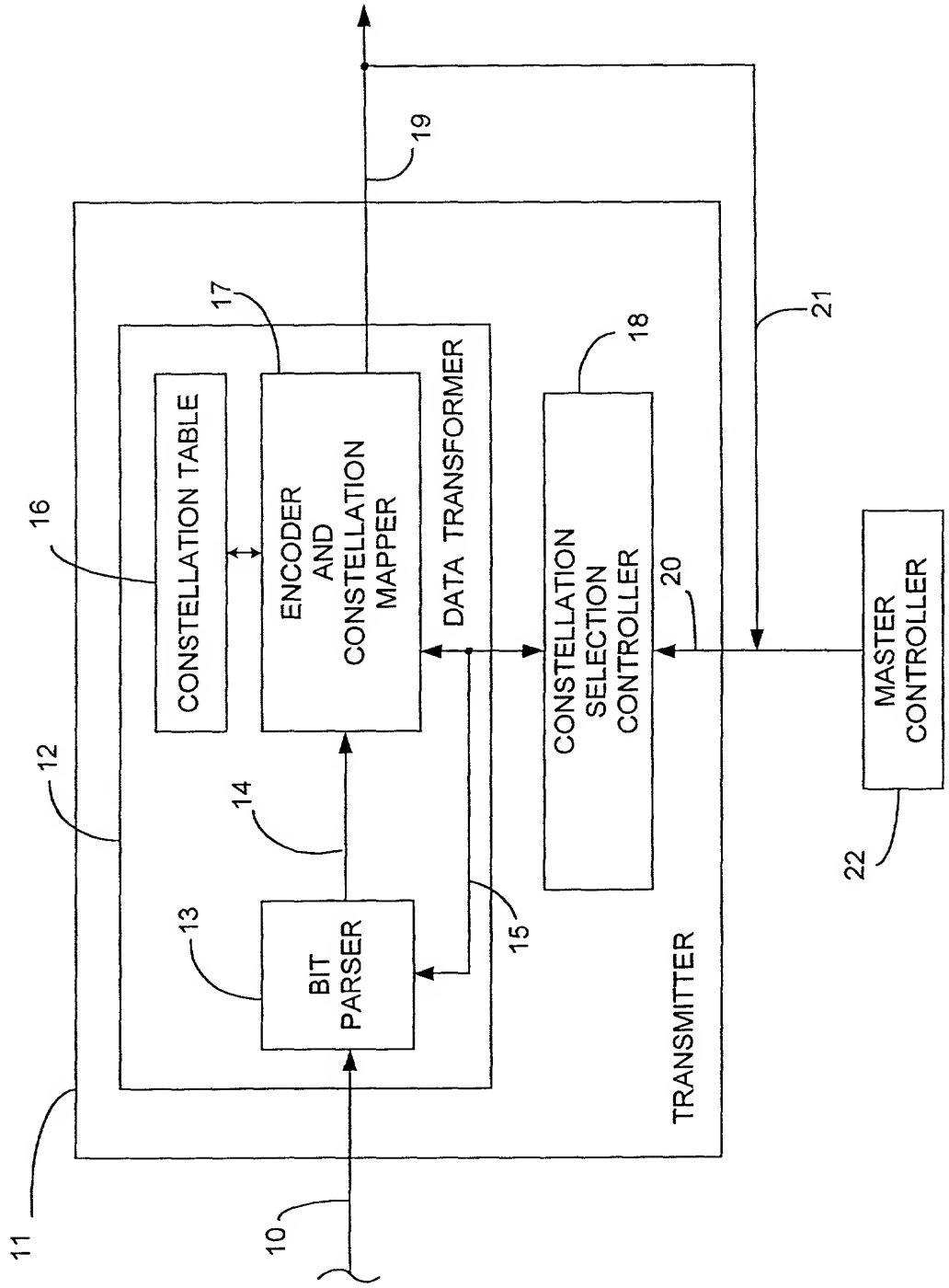
FIG. 1




TRANSMITTER
DATA TRANSFORMER
CONSTELLATION TABLE
ENCODER AND CONSTELLATION MAPPER
BIT PARSER
CONSTELLATION SELECTION CONTROLLER
MASTER CONTROLLER
10
11
12
13
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16
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21
22

FIG. 2

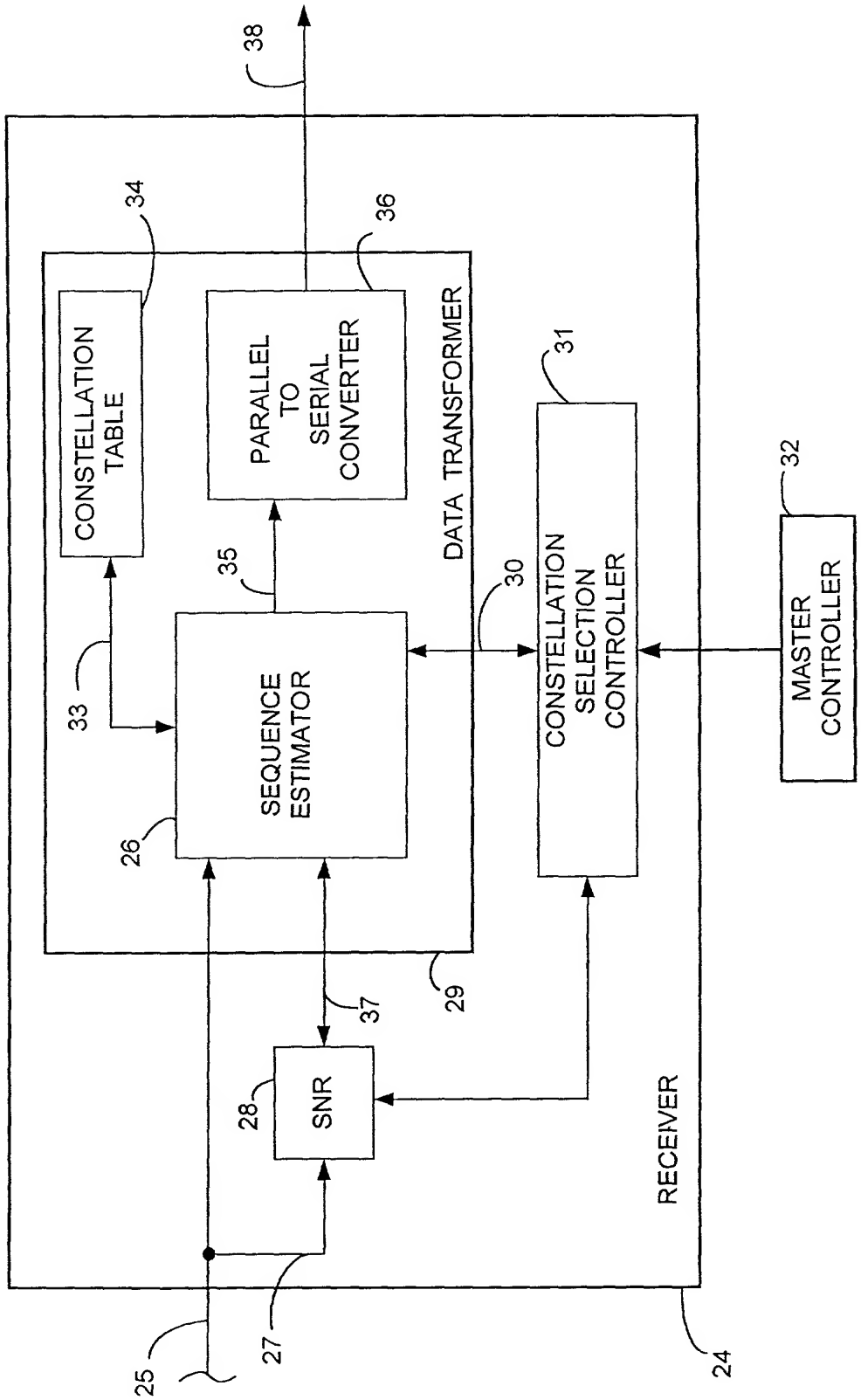
38
34
36
CONSTELLATION TABLE
PARALLEL TO SERIAL CONVERTER
DATA TRANSFORMER
31
32
35
30
33
SEQUENCE ESTIMATOR
CONSTELLATION SELECTION CONTROLLER
MASTER CONTROLLER
26
29
37
28
SNR
RECEIVER
25
27
24

FIG. 3

Attorney: John F O'Rourke
Docket No.: 47450/JFO/B600
Inventor(s): Thuji Simon Lin et al
Title: CONSTELLATION-MULTIPLEXED TRANSMITTER AND RECEIVER
Sheet 4 of 6

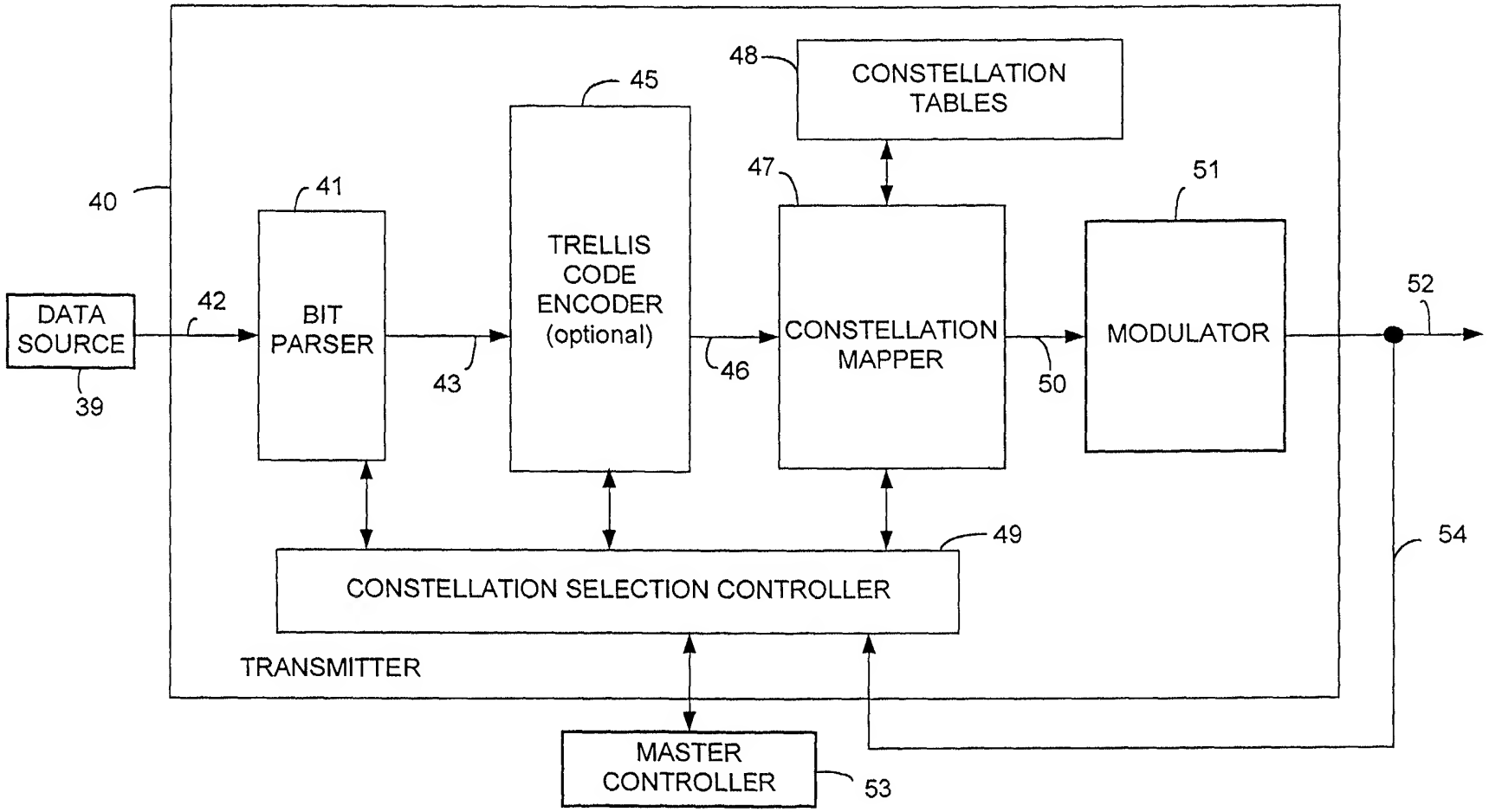

FIG. 4

Attorney: John F. O'Rourke
Docket No.: 47450/JFO/B600
Inventor(s): Thuji Simon Lin et al
Title: CONSTELLATION-MULTIPLEXED TRANSMITTER AND RECEIVER
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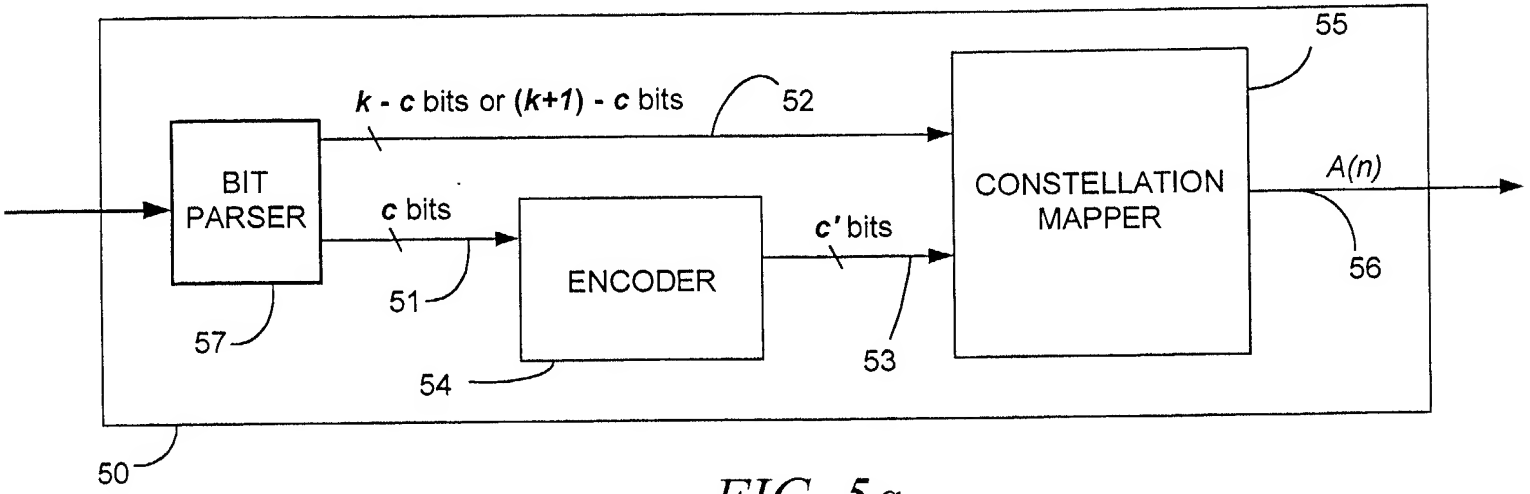

FIG. 5a

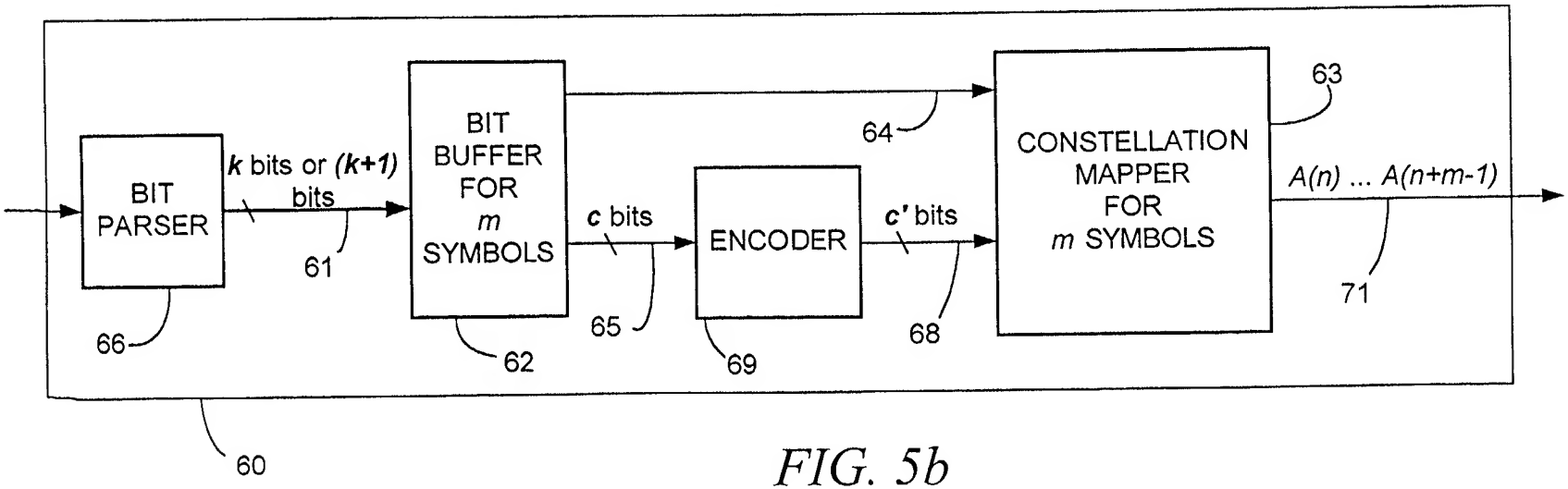

FIG. 5b

TOTAL EBSHOT

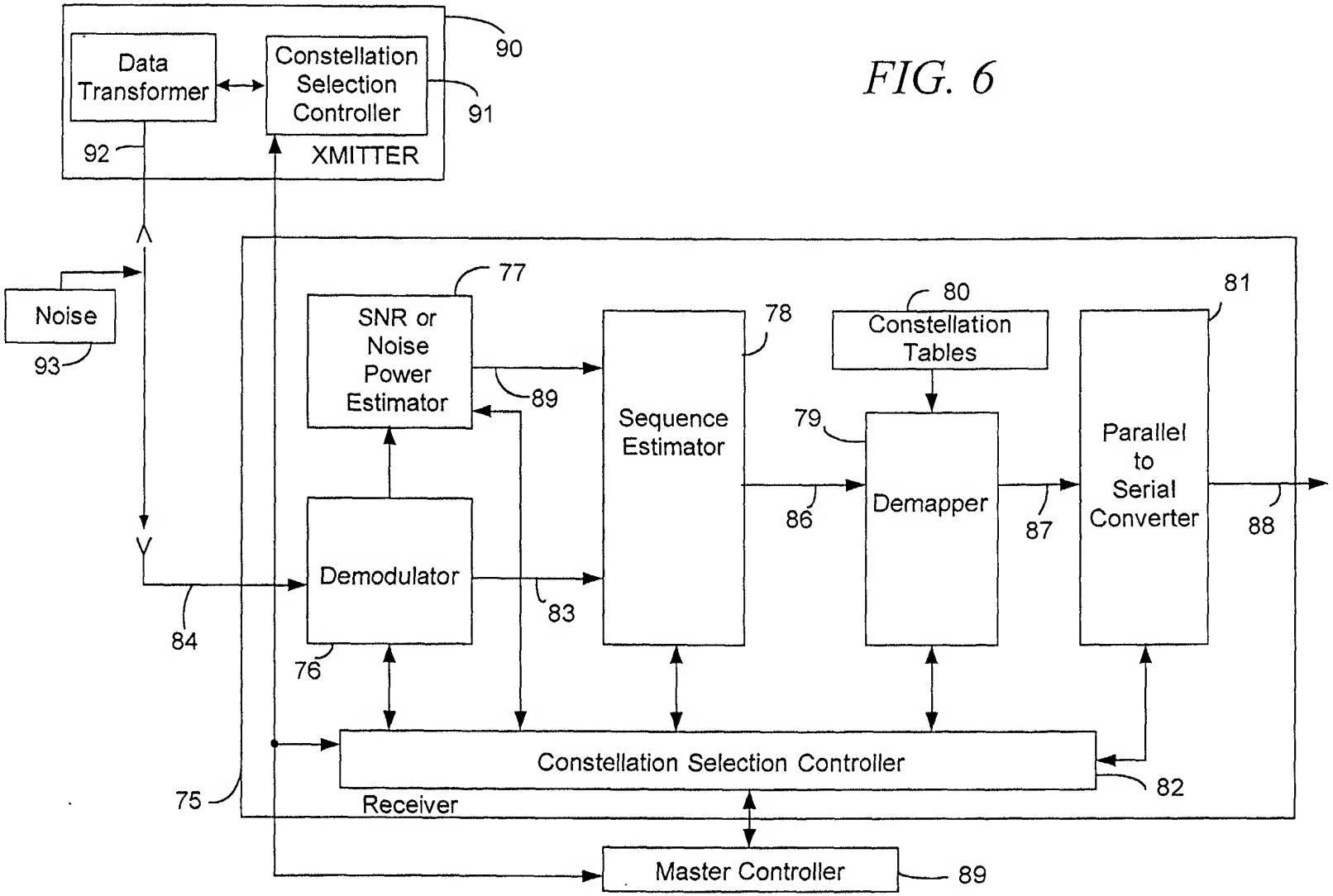

FIG. 6

Attorney: John F. O'Rourke
Docket No.: 47450/JFO/B600
Inventor(s): Thuji Simon Lin et al
Title: CONSTELLATION-MULTIPLEXED TRANSMITTER AND RECEIVER
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